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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,423	06/28/2001	Ronald H. Chiarello	SYNGEN-06067	6875
23535	7590 11/15/2004		EXAM	INER
MEDLEN & CARROLL, LLP			QIAN, CELINE X	
101 HOWARD STREET SUITE 350			ART UNIT	PAPER NUMBER
	CISCO, CA 94105		1636	
			DATE MAILED: 11/15/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/894,423	CHIARELLO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Celine X Qian	1636				
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a low within the statutory minimum of thir will apply and will expire SIX (6) MONe. cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 L						
— / <u></u>						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.L	J. 11, 45 3 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1 and 4 is/are pending in the applica 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 4 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.					
Application Papers	·					
9) The specification is objected to by the Examin 10) The drawing(s) filed on 28 June 2001 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	a)⊠ accepted or b)⊡ obje e drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)				

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DETAILED ACTION

Claims 1 and 4 are pending in the application.

This Office Action is in response to the Amendment filed on 12/22/03.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/22/03 has been entered.

Response to Amendment

The objection to the drawing has been withdrawn in response to Applicant's argument.

The rejection of claims 1, 3 and 4 has been withdrawn in light of Applicant's amendment of the claims.

Claims 1 and 4 are rejected under 35 U.S.C.112 1st paragraph for reasons set forth below.

Claims 1 and 4 are rejected under 35 U.S.C.102 (b) for reasons discussed below.

New Grounds of Rejection Necessitated by Applicant's Amendment

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not

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described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The written description requirement is set forth by 35 U.S.C. 112, first paragraph which states that the: "specification shall contain a written description of the invention. ... [emphasis added]." The written description requirement has been well established and characterized in the case law. A specification must convey to one of skill in the art that "as of the filing date sought, [the inventor] was in possession of the invention." See Vas Cath v. Mahurkar 935 F.2d 1555, 1560 19 USPQ2d 1111, 1117 (Fed. Cir. 1991). Applicant may show that he is in "possession" of the invention claimed by describing the invention with all of its claimed limitations "by such descriptive means as words, structures, figures, diagrams, formulas, etc., that fully set forth the claimed invention." See Lockwood v. American Airlines Inc. 107 F.3d 1565, 1572, 41 USPQ2d 1961, 1966 (Fed. Cir. 1997).

In analyzing whether the written description requirement is met, it is first determined whether a representative number of species have been described by their complete structure.

Next, it is determined whether a representative number of species have been sufficiently described by other relevant identifying characteristics. The claims recite a bifunctional linker arm comprising a hydrocarbon, a protected secondary amine, and a hydroxyl group. The claimed genus potentially encompasses a large number of chemical compounds that comprises a secondary amine and a hydroxyl group since hydrocarbon can be any structure which comprises carbon and hydrogen. In view of this huge genus as claimed, the compounds listed in Table 1, 2 and 3 do not constitutes a representative number of species for this vast genus. The specification

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also fails to describe the essential structure of said bifunctional linker that is responsible for their function as a bifunctional linker. The specification thus fails to describe the complete structure of the claimed invention and other identifying characteristics. Therefore, the written description requirement is not met.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Vinayak et al.

Vinayak et al teach a method of labeling an oligonucleotide bound at its 3' end to a polystyrene support by reacting the oligonucleotide with an amino-linker phosphoramidite reagent (See Figure 2, especially structure 1 in Figure 2, which is a bifinctional linker comprising hydrocarbon, protected secondary amine and hydroxyl group, and Figure). The protected amino group is detritylated (thus deprotected) then reacted with an activated label, such as TAMRA-CO₂H. Other labels taught for use in the method include: 6-FAM, rhodamines (see col. 14, 1st structure) and fluoresceins (see col. 13-17). Therefore, Vinayak et al. disclose the instantly claimed inventions.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X Qian whose telephone number is 571-272-0777. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Celine Qian, Ph.D.

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